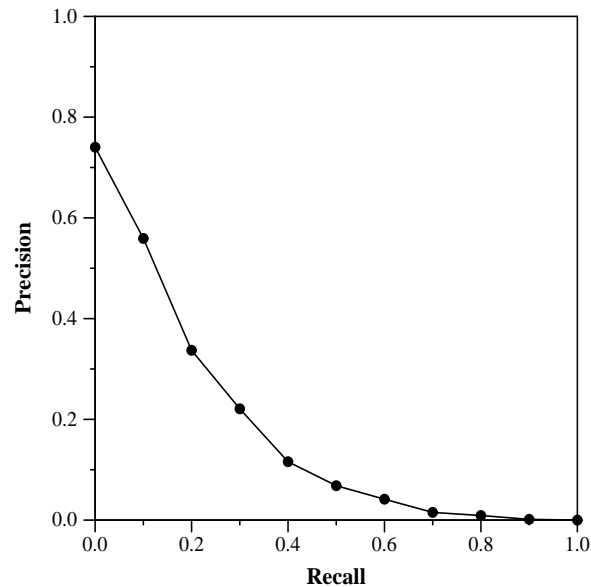


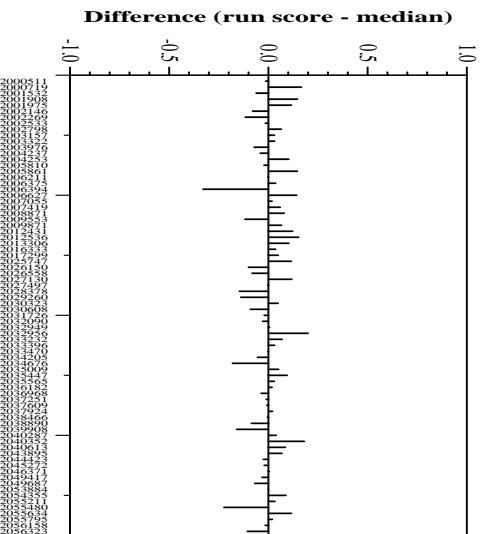
Deep Learning Track results — (NLE) Naver Labs Europe

Run Description	
Run ID:	SPLADE_EFF_V
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	Unfortunately we did not track the training cost, but if I remember correctly is one day on 4 V100
Pre-processing/indexing cost:	25 GPU hours on V100 (divided into 25 mono gpu jobs)
Query processing cost:	Around 25 seconds using 64 cpu-cores and the PISA software (2 minutes for each model). No gpu used

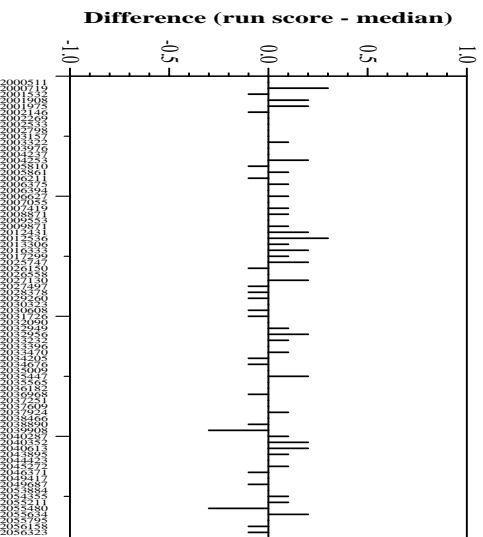
Overall measures	
Number of topics	76
Total number retrieved	6596
Total relevant	4613
Total relevant retrieved	1209
MAP	0.1644
Mean NDCG@10	0.5408
Mean Reciprocal Rank	0.7017

Document Level Averages	
Precision	
At 5 docs	0.5079
At 10 docs	0.4645
At 15 docs	0.4035
At 20 docs	0.3697
At 30 docs	0.3202
R-Precision	
Exact	0.2437

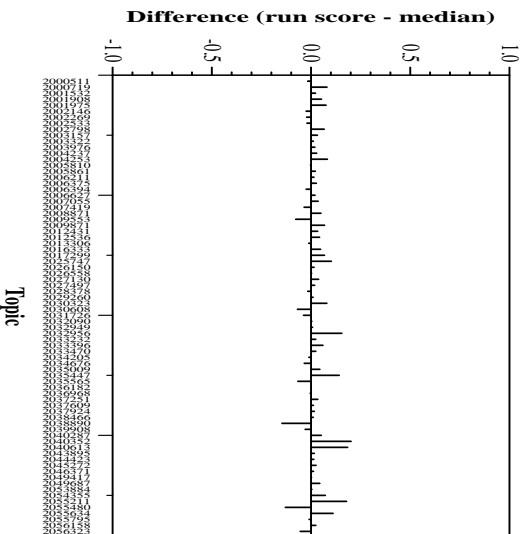




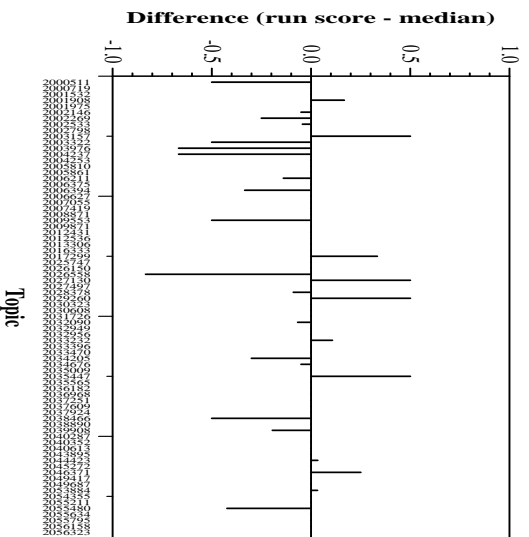
Per-topic difference from median for NDCG@10 for Passage Ranking runs



Per-topic difference from median for Prec@10 for Passage Ranking runs



Per-topic difference from median for Average Precision for Passage Ranking runs



Per-topic difference from median for Reciprocal Rank for Passage Ranking runs